AUTHOR INDEX

ADAMS, R. D.
The Predicted and Experimental Natural Modes of Free-Free CFRP Plates, p. 336

AKAY, A.
Fracture Time of Composites Under Tensile Loading, p. 262

AWERVUCH, J.
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

CARTER, H. G.
Langmuir-Type Model for Anomalous Moisture Diffusion in Composite Resins, p. 118

CAWLEY, P.
The Predicted and Experimental Natural Modes of Free-Free CFRP Plates, p. 336

CHOU, P.
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

CROMAN, R.
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

CROSSMAN, F. W.
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76

CROUZET-PASCAL, J.
Comment on "Buckling of Rotationally Restrained Orthotropic Plates Under Uniaxial Compression", p. 215

DICKSON, J. N.
Interlaminar Stresses in Symetric Composite Laminates, p. 390

EBERT, L. J.
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

GILLESPIE, J. W., JR.
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

HAHN, H. T.
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

AUTHOR INDEX

ADAMS, R. D.
The Predicted and Experimental Natural Modes of Free-Free CFRP Plates, p. 336

AKAY, A.
Fracture Time of Composites Under Tensile Loading, p. 262

AWERVUCH, J.
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

CARTER, H. G.
Langmuir-Type Model for Anomalous Moisture Diffusion in Composite Resins, p. 118

CAWLEY, P.
The Predicted and Experimental Natural Modes of Free-Free CFRP Plates, p. 336

CHOU, P.
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

CROMAN, R.
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

CROSSMAN, F. W.
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76

CROUZET-PASCAL, J.
Comment on "Buckling of Rotationally Restrained Orthotropic Plates Under Uniaxial Compression", p. 215

DICKSON, J. N.
Interlaminar Stresses in Symetric Composite Laminates, p. 390

EBERT, L. J.
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

GILLESPIE, J. W., JR.
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

HAHN, H. T.
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

HARLOW, D. G.
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analysis and Conjectures, p. 195
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314.

HARRIS, ALEXANDER
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

HASSELMAN, D. P. H.
Effect of Cracks on Thermal Conductivity, p. 402

ISHIKAWA, T.
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

JONES, D. L.
Statistical Fatigue of Graphite/Epoxy Angle-Ply Laminates in Shear, p. 371

KIBLER, K. G.
Langmuir-Type Model for Anomalous Moisture Diffusion in Composite Resins, p. 118

KIM, H. C.
Axial Fatigue Failure Se uence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

KO, WILLIAM L.
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97

KOBAYASHI, S.
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

KOYAMA, K.
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

LABOR, J. D.
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238

LEE, SAMSON S.
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

LUTTWAK, G. E.
Shock Wave Propagation in Layered Composites, p. 84

MacDONALD, D.
Evaluation of the Tensor Polynomial Failure Criterion for Composite Materials, p. 63

NANYARO, A. P.
Evaluation of the Tensor Polynomial Failure Criterion for Composite Materials, p. 63

NJISMER, R. J.
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238

ONO, K.
Stress Concentration Due to a Prolate Spheroidal Inclusion, p. 132

ORRINGER, O.
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

OVED, Y.
Shock Wave Propagation in Layered Composites, p. 84

PETERS, P. W. M.
The Interlaminar Shear Strength of Unidirectional Boron-Aluminum Composites, p. 53
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250

PHOENIX, S. L.
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analysis and Conjectures, p. 195
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314

PIPES, R. B.
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

PREWO, K. M.
The Effect of Poly Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40

ROSENBERG, Z.
Shock Wave Propagation in Layered Composites, p. 84

RYBICKI, E.
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

SAIBEL, E.
Fracture Time of Composites Under Tensile Loading, p. 262

SCHMUESER, D. W.
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

SHIBATA, M.
Stress Concentration Due to a Prolate Spheroidal Inclusion, p. 132

SUN, C. T.
Strength Distribution of a Unidirectional Fiber Composite Analysis of Laminate Strength and Its Distribution, p. 275

TENNYSON, R. C.
Evaluation of the Tensor Polynomial Failure Criterion For Composite Materials, p. 63

WANG, A. S. D.
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76

WANG, J. T. S.
Interlaminar Stresses in Symmetric Composite Laminates, p. 390

WILLIAMS J. H.
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

YAMADA, S. E.
Strength Distribution of a Unidirectional Fiber Composite, p. 169
Analysis of Laminate Strength and Its Distribution, p. 275

YANG, J. N.
Fatigue and Residual Strength Degradation for Graphite/Epoxy Composites Under Tension-Compression Cyclic Loading, p. 19
Statistical Fatigue of Graphite/Epoxy Angle-Ply Laminates in Shear, p. 371

ZWEBEN, CARL
The Flexural Strength of Aramid Fiber Composites, p. 422

SUBJECT INDEX

Acoustic Emission
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

Adhesive Joint
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

Analysis
Thermal Expansion Coefficients of Unidirectional Composites, p. 153
The Flexural Strength of Aramid Fiber Composites, p. 422

Analysis of Failure
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analysis and Conjectures, p. 195

Annular Crack
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97

Aramid
The Flexural Strength of Aramic Fiber Composites, p. 422

Bending
The Flexural Strength of Aramid Fiber Composites, p. 422

Boron Aluminum
The Effect of Ply Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40
The Interlaminar Shear Strength of Unidirectional Boron-Aluminum Composites, p. 53
K-Calibration of Unidirectional Metal Matrix Composites, p. 222
Fracture Mechanical Investigations of Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250

Boron Epoxy
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250

Borsic/Titanium
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

Ceramics
Effect of Cracks on Thermal Conductivity, p. 403

Chain-of-Bundles Probability Model
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314

Compliance Curves
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

Composites
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97
Strength Distribution of a Unidirectional Fiber Composite, p. 169
Fracture Time of Composites Under Tensile Loading, p. 262
Statistical Fatigue of Graphite/Epoxy Angle-Ply Laminates in Shear, p. 371

Coupon Testing
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

Cracks
Effect of Cracks on Thermal Conductivity, p. 403

Crack Growth
The Effect of Ply Lay-Up Sequence on the Fracture of Toughness of Boron Aluminum, p. 40

Crack Opening Displacement
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

Degradation
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

Delamination
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

Design
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

Elasto-Plastic
Shock Wave Propagation in Layered Composites, p. 84

Equal Rank Assumption
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177

Experiments
Thermal Expansion Coefficients of Unidirectional Composites, p. 153
Statistical Fatigue of Graphite/Epoxy Angle-Ply Laminates in S ear, p. 371

Failure
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238

Analysis of Laminate Strength and Its Distribution, p. 275

Fatigue
Residual Strength in Fatigue Based on the sTrength-Life Equal Rank Assumption, p. 177
Statistical Fatigue of Graphite-Epoxy Angle-Ply Laminates in Shear, p. 371

Fatigue Failure Mechanisms
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Fatigue Life
Fatigue and Residual Strength Degradation for Graphite/Epoxy Composites Under Tension – Compression Cyclic Loadings, p. 19

Fiber Composites
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

Fiber Surface Flow Propagation
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Finite Difference
Shock Wave Propagation in Layered Composites, p. 84

Finite Element Analysis
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

Flexure
The Flexural Strength of Aramid Fiber Composites, p. 422

Fracture
K-Calibration of Unidirectional Metal Matrix Composites, p. 222
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron Epoxy Composites, p. 250
Fracture Time of Composites under Tensile Loading, p. 262

Fracture Toughness
The Effect of Ply Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40

Free Edge Stress
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300
Interlaminar Stresses In Symmetric Composite Laminates, p. 390

Glass/Epoxy
Evaluation of the Tensor Polynomial Failure Criterion for Composite Materials, p. 63
Strength Distribution of a Unidirectional Fiber Composite, p. 169

Graphite-Epoxy Laminate
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2
Fatigue and Residual Strength Degradation for Graphite/Epoxy Composites Under Tension-Compression Cyclic Loadings, p. 19
Evaluation of the Tensor Polynomial Failure Criterion for Composite Materials, p. 63
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

Holes in Plates
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

Hydrodynamic
Shock Wave Propagation in Layered Composites, p. 84

Hydroscopic Stress
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2

Hydroscopic Nature
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

Hysteresis Loop Energy Change
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Inhomogeneity Effect
Stress Concentration Due to a Prolate Spheroidal Inclusion, p. 132

Interface Failure
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Interlaminar
Behavior of Integral Composite Joints-Finite Element and Experimental Evaluation, p. 408

Interlaminar Strength
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

Interlaminar Stresses
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300
Interlaminar Stresses in Symmetric Composite Laminates, p. 390

Iron-Titanite
Effect of Cracks on Thermal Conductivity, p. 403

K-Calibration
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

Laminates
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

Laminate Strength
Analysis of Laminate Strength and Its Distribution, p. 275

Layered
Shock Wave Propagation in Layered Composites, p. 84

Load Sharing Rules
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analysis and Conjectures, p. 195

Local Load Sharing
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314

Material Properties
Investigation of Angle-Ply Delamination Specimen for Interlaminar Strength Test, p. 285

Matrix Cracking
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Metal Matrix
The Interlaminar Shear Strength of Unidirectional Boron-Aluminum Composites, p. 53
K-Calibration of Unidirectional Metal Matrix Composites, p. 222

Micro-Cracking
Effect of Cracks on Thermal Conductivity, p. 403

Moire
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250

Moisture Diffusion
Stress Field Induced by Transient Moisture Sorption in Finite-Width Composite Laminates, p. 2

Nondestructive Testing
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

Orthotropy
Comment on "Buckling of Rotationally Restrained Orthotropic Plates Under Uniaxial Compression," p. 215

Parameter Study
Comment on "Buckling of Rotationally Restrained Orthotropic Plates Under Uniaxial Compression," p. 215

Penny Crack
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97

Plate Buckling
Comment on "Buckling of Rotationally Restrained Plates Under Uniaxial Compression", p. 215

Ply Lay-Up
The Effect of Ply Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40

Probability Model
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analysis and Conjectures, p. 195

Prolage Spheroidal Inclusion
Stress Concentration Due to a Prolate Spheroidal Inclusion, p. 132

Reaction Rate Theory
Fracture Time of Composites Under Tensile Loading, p. 262

Residual Strength
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177
Statistical Fatigue of Graphite/Epoxy Angle-Ply Laminates in Shear, p. 371

Residual Strength Degradation
Fatigue and Residual Strength Degradation for Graphite/Epoxy Composites under Tension-Compression Cyclic Loadings, p. 19

Review Paper
Acoustic Emission Monitoring of Fiber Composite Materials and Structures, p. 348

Secant Modulus Degradation
Axial Fatigue Failure Sequences and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Shear Strength
The Interlaminar Shear Strength of Unidirectional Boron-Aluminum Composites, p. 53
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250
Analysis of Laminate Strength and Its Distribution, p. 275

Shock
Shock Wave Propagation in Layered Composites, p. 84

Stacking Sequence
The Effect of Ply Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

Statistical Approach
Residual Strength in Fatigue Based on the Strength-Life Equal Rank Assumption, p. 177
The Flexural Strength of Aramid Fiber Composites, p. 422

Statistical Distribution
Strength Distribution of a Unidirectional Fiber Composite, p. 169

Strength
Strength Distribution of a Unidirectional Fiber Composite, p. 169
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials I: Analyais and Conjectures, p. 195
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238
Analysis of Laminate Strength and Its Distribution, p. 275
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314
The Flexural Strength of Aramid Fiber Composites, p. 422

Strength Criteria
Evaluation of the Tensor Polynomial Failure Criterion for C mposite Materials, p. 63

Stress Analysis
Finite Element Microscopic Stress Analysis of Cracked Composite Systems, p. 97
Interlaminar Stresses in Symmetric Composite Laminates, p. 390

Stress Concentration
Stress Concentration Due to a Prolate Spheroidal Inclusion, p. 132
Applications of the Average Stress Failure Criterion: Part I – Tension, p. 238

Sub-Structuring
Calculation of Edge Stresses in Multi-Layer Laminates by Sub-Structuring, p. 76

T.E.C. of Carbon Fibers
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

Temperature Dependency
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

Tension-Compression Fatigue
Fatigue and Residual Strength Degradation for Graphite/Epoxy Composites Under Tension-Compression Cyclic Loadings, p. 19

Tensor Polynomial
Evaluation of the Tensor Polynomial Failure Criterion for Composite Materials, p. 63

Test Methods
The Flexural Strength of Aramid Fiber Composites, p. 422

Theoretical Fatigue Model
Fatigue and REsidual Strength Degradation for Graphite/Epoxy Composites Under Tension-Compression Cyclic Loadings, p. 19

Thermal Conductivity
Effect of Cracks on Thermal Conductivity, p. 403

Thermal Expansion Coefficients (T.E.C.)
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

Three Dimensional Finite Element Analysis
Effect of Stacking Sequence and Lay-Up Angle on Free Edge Stresses Around a Hole in a Laminated Plate Under Tension, p. 300

Through-Delamination
Axial Fatigue Failure Sequence and Mechanisms in Unidirectional Fiberglas Composites, p. 139

Totationally Restrained Edges
Comment on "Buckling of Rotationally Restrained Orthotropic Plates Under Uniaxial Compression," p. 215

Toughness
The Effect of Ply Lay-Up Sequence on the Fracture Toughness of Boron Aluminum, p. 40

Uniaxial Load
Comment on "Buckling of Rotationally Restrained Plates Under Uniaxial Compression," p. 215

Unidirectional Carbon-Epoxy
Thermal Expansion Coefficients of Unidirectional Composites, p. 153

Unidirectional Composites
The Interlaminar Shear Strength of Unidirectional Boron-Aluminum Composites, p. 53
Fracture Mechanical Investigations on Unidirectional Boron-Aluminum and Boron-Epoxy Composites, p. 250

Weakest Link Characteristics
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314

Weibul Distribution
The Chain-of-Bundles Probability Model for the Strength of Fibrous Materials II: A Numerical Study of Convergence, p. 314